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## LAMPIRAN

### Lampiran 1. Analisis kadar air *biofoam*

#### Tests of Between-Subjects Effects

Dependent Variable: Kadar\_air

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	46,917 <sup>a</sup>	7	6,702	29,031	,000
Intercept	2600,407	1	2600,407	11263,403	,000
Biofoam	46,126	5	9,225	39,958	,000
Kelompok	,791	2	,395	1,712	,229
Error	2,309	10	,231		
Total	2649,633	18			
Corrected Total	49,226	17			

a. R Squared = ,953 (Adjusted R Squared = ,920)

#### Kadar\_air

Duncan<sup>a,b</sup>

Biofoam	N	Subset			
		1	2	3	4
P2 = Jerami & jagung	3	10,3700			
P4 = Serbuk gergaji & sorgum	3	10,6533			
P1 = Serbuk gergaji & jagung	3	10,8400			
P5 = Jerami & Sorgum	3		12,0167		
P3 = Jerami kapok & sorgum	3			13,5767	
P6 = Jerami kapok & gabah	3				14,6600
Sig.		,279	1,000	1,000	1,000

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = ,231.

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

b. Alpha = ,05.



## Lampiran 2. ANOVA analisis daya serap air *biofoam*

Tabel 4. Persentase daya serap air sampel *biofoam*

Biofoam	Lama perendaman			Rata-rata
	1 jam	2 jam	4 jam	
P1	253,18% ± 0,4	255,74% ± 0,4	287,26% ± 0,7	265,39% ± 2,8 b
P2	66,63% ± 0	111,37% ± 0	132,53% ± 0	103,51% ± 1,4 a
P3	115,49% ± 0,3	156,00% ± 0,4	176,95% ± 0,4	149,48% ± 1,7 a
P4	252,08% ± 0,2	302,86% ± 0,4	313,14% ± 0,3	289,36% ± 3,1 b
P5	85,30% ± 0,2	106,32% ± 0,1	121,94% ± 0,1	104,52% ± 1,2 a
P6	101,64% ± 0,4	159,83% ± 0,5	180,99% ± 1,7	147,49% ± 1,9 a

### Tests of Between-Subjects Effects

Dependent Variable: parameter

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	405,123 <sup>a</sup>	23	17,614	75,476	,000
Intercept	2336,203	1	2336,203	10010,571	,000
jam	267,968	3	89,323	382,746	,000
Biofoam	97,552	5	19,510	83,601	,000
jam * Biofoam	39,603	15	2,640	11,313	,000
Error	11,202	48	,233		
Total	2752,528	72			
Corrected Total	416,325	71			

a. R Squared = ,973 (Adjusted R Squared = ,960)

### parameter

Duncan<sup>a,b</sup>

faktor	N	Subset			
		1	2	3	4
0 jam	18	2,4706			
1 jam	18		6,0017		
2 jam	18			6,9067	
4 jam	18				7,4061
Sig.		1,000	1,000	1,000	1,000

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = ,233.

a. Uses Harmonic Mean Sample Size = 18,000.

b. Alpha = ,05.

**parameter**

Duncan<sup>a,b</sup>

perlakuan	N	Subset				
		1	2	3	4	5
P5 = jerami & sorgum	12	4,4525				
P2 = Jerami & jagung	12	4,7550	4,7550			
P3 = jerami kapok & sorgum	12		5,1467	5,1467		
P6 = jerami kapok & gabah	12			5,2600		
P1 = Serbuk kayu & jagung	12				6,9842	
P4 = serbuk gergaji & sorgum	12					7,5792
Sig.		,132	,053	,568	1,000	1,000

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = ,233.

a. Uses Harmonic Mean Sample Size = 12,000.

b. Alpha = ,05.

**Uji Lanjutan Duncan**

**ANOVA**

parameter

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	405,123	23	17,614	75,476	,000
Within Groups	11,202	48	,233		
Total	416,325	71			

parameter

Duncan<sup>a</sup>

interaksi	N	Subset for alpha = 0.05							
		1	2	3	4	5	6	7	8
P1H0	3	2,3367							
P4H0	3	2,3933							
P3H0	3	2,4267							
P5H0	3	2,4933							
P6H0	3	2,4967							
P2H0	3	2,6767							
P2H1	3		4,4600						
P5H1	3		4,6267						
P6H1	3		5,0333	5,0333					
P5H2	3		5,1500	5,1500					
P3H1	3		5,2300	5,2300					
P5H4	3			5,5400	5,5400				
P2H2	3			5,6567	5,6567	5,6567			
P3H2	3				6,2100	6,2100	6,2100		
P2H4	3				6,2267	6,2267	6,2267		
P6H2	3					6,4867	6,4867		
P3H4	3						6,7200		
P6H4	3						7,0233		
P1H1	3							8,2467	
P1H2	3							8,3033	
P4H1	3							8,4133	
P1H4	3							9,0500	9,0500
P4H2	3								9,6333
P4H4	3								9,8767
Sig.		,459	,087	,166	,118	,059	,070	,067	,052

Means for groups in homogeneous subsets are displayed.

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

### Lampiran 3. ANOVA analisis *biodegradable biofoam*

Tabel 5. Persentase biodegradabilitas *biofoam* miselium jamur

Biofoam	Hari 0	Hari 10	Hari 20	Hari 30	Rata-rata
P1	1,9 ± 0,5	12,1 ± 0,4	14,3 ± 0,7	59,2 ± 0	21,9 ± 0,6 c
P2	1,4 ± 0,2	13,8 ± 0,1	34,8 ± 0,1	53,3 ± 0	25,8 ± 0,3 b
P3	1,7 ± 0,3	10,2 ± 0,2	25,9 ± 0,3	42,2 ± 0,1	20 ± 0,3 b
P4	2,0 ± 0,3	21,7 ± 0	29,7 ± 0	54,0 ± 0,1	26,9 ± 0,4 c
P5	1,0 ± 0,1	4,8 ± 0	28,3 ± 0	47,4 ± 0	20,4 ± 0,2 a
P6	1,3 ± 0,1	13,4 ± 0	26,7 ± 0	47,1 ± 0,1	22,1 ± 0,2 b
Rata-rata	1,6 ± 0,4	12,7 ± 0,3	26,6 ± 0,4	50,6 ± 0,1	22,8 ± 0,4

#### Tests of Between-Subjects Effects

Dependent Variable: parameter

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	12,180 <sup>a</sup>	23	,530	7,093	,000
Intercept	103,824	1	103,824	1390,733	,000
Biofoam * hari	,791	15	,053	,707	,765
hari	6,184	3	2,061	27,612	,000
Biofoam	5,204	5	1,041	13,942	,000
Error	3,583	48	,075		
Total	119,587	72			
Corrected Total	15,763	71			

a. R Squared = ,773 (Adjusted R Squared = ,664)

#### parameter

Duncan<sup>ab</sup>

faktor A	N	Subset		
		1	2	3
P5 = jerami & sorgum	12	,7800		
P6 = jerami kapok & gabah	12		1,0350	
P2 = Jerami & jagung	12		1,0433	
P3 = jerami kapok & sorgum	12			1,3350
P4 = serbuk gergaji & sorgum	12			1,4950
P1 = Serbuk kayu & jagung	12			1,5167
Sig.		1,000	,941	,130

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = ,075.

a. Uses Harmonic Mean Sample Size = 12,000.

b. Alpha = ,05.

**parameter**

Duncan<sup>a,b</sup>

faktor B	N	Subset			
		1	2	3	4
hari 30	18	,7578			
hari 20	18		1,1489		
hari 10	18			1,3433	
hari 0	18				1,5533
Sig.		1,000	1,000	1,000	1,000

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = ,075.

a. Uses Harmonic Mean Sample Size = 18,000.

b. Alpha = ,05.

#### Lampiran 4. ANOVA analisis pH buah stroberi

Tabel 6. pH buah stroberi selama penyimpanan

Kema san	Lama penyimpanan				Rata rata
	Hari 0	Hari 4	Hari 8	Hari 12	
P0	3,69 ± 0,10 m	3,52 ± 0,19 l	2,24 ± 0,02 a	3,38 ± 0,04 ghijkl	3,21 ± 0,60 c
P1	3,44 ± 0,05 ijkl	3,38 ± 0,05 ghijkl	2,41 ± 0,05 bc	3,29 ± 0,02 efghi	3,13 ± 0,44 b
P2	3,47 ± 0,09 jkl	3,31 ± 0,02 fghijk	2,37 ± 0,08 abc	3,22 ± 0,03 defg	3,09 ± 0,45 ab
P3	3,50 ± 0,10 kl	3,44 ± 0,04 ijkl	2,33 ± 0,11 ab	3,21 ± 0,05 defg	3,12 ± 0,49 ab
P4	3,47 ± 0,10 jkl	3,40 ± 0,07 hijkl	2,44 ± 0,12 bc	3,11 ± 0,03 d	3,10 ± 0,43 ab
P5	3,34 ± 0,03 fghijkl	3,28 ± 0,07 defghi	2,47 ± 0,01 bc	3,18 ± 0,04 def	3,06 ± 0,37 ab
P6	3,25 ± 0,22 defgh	3,29 ± 0,07 efghi	2,51 ± 0,14 c	3,13 ± 0,05 de	3,04 ± 0,35 a
Rata- rata	3,45 ± 0,17 d	3,37 ± 0,11 c	2,39 ± 0,11 a	3,22 ± 0,09 b	3,11 ± 0,44

#### Tests of Between-Subjects Effects

Dependent Variable: pH

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	15,728 <sup>a</sup>	29	,542	64,596	,000
Intercept	811,648	1	811,648	96673,603	,000
Biofoam	,198	6	,033	3,931	,002
Penyimpanan	14,941	3	4,980	593,185	,000
Biofoam * Penyimpanan	,581	18	,032	3,847	,000
Kelompok	,008	2	,004	,454	,637
Error	,453	54	,008		
Total	827,829	84			
Corrected Total	16,181	83			

a. R Squared = ,972 (Adjusted R Squared = ,957)

**pH**

Duncan<sup>a,b</sup>

B = Biofoam	N	Subset		
		1	2	3
P6 = Jerami kapok & gabah	12	3,0421		
P5 = Jerami & sorgum	12	3,0646	3,0646	
P2 = Jerami & jagung	12	3,0929	3,0929	
P4 = Serbuk kayu & sorgum	12	3,1042	3,1042	
P3 = Jerami kapok & sorgum	12	3,1213	3,1213	
P1 = Serbuk kayu & Jagung	12		3,1292	
P0 = Styrofoam	12			3,2050
Sig.		,063	,130	1,000

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = ,008.

a. Uses Harmonic Mean Sample Size = 12,000.

b. Alpha = ,05.

**parameter**

Duncan<sup>a,b</sup>

faktor	N	Subset			
		1	2	3	4
hari 30	18	,7578			
hari 20	18		1,1489		
hari 10	18			1,3433	
hari 0	18				1,5533
Sig.		1,000	1,000	1,000	1,000

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = ,062.

a. Uses Harmonic Mean Sample Size = 18,000.

b. Alpha = ,05.

## Lampiran 5. Uji lanjutan Duncan analisis pH buah stroberi

### ANOVA

pH

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	15,720	27	,582	70,726	,000
Within Groups	,461	56	,008		
Total	16,181	83			

pH

Duncan<sup>a</sup>

interaksi	N	Subset for alpha = 0.05												
		1	2	3	4	5	6	7	8	9	10	11	12	13
P0H8	3	2,2400												
P3H8	3	2,3300	2,3300											
P2H8	3	2,3667	2,3667	2,3667										
P1H8	3		2,4067	2,4067										
P4H8	3		2,4350	2,4350										
P5H8	3		2,4650	2,4650										
P6H8	3			2,5050										
P4H12	3				3,1100									
P6H12	3				3,1250	3,1250								
P5H12	3				3,1800	3,1800	3,1800							
P3H12	3				3,2133	3,2133	3,2133	3,2133						
P2H12	3				3,2233	3,2233	3,2233	3,2233						
P6H0	3				3,2500	3,2500	3,2500	3,2500	3,2500					
P5H4	3				3,2767	3,2767	3,2767	3,2767	3,2767	3,2767				
P6H4	3				3,2883	3,2883	3,2883	3,2883	3,2883	3,2883				
P1H12	3				3,2933	3,2933	3,2933	3,2933	3,2933	3,2933				
P2H4	3						3,3117	3,3117	3,3117	3,3117	3,3117			
P5H0	3						3,3367	3,3367	3,3367	3,3367	3,3367	3,3367		
P0H12	3						3,3750	3,3750	3,3750	3,3750	3,3750	3,3750	3,3750	
P1H4	3						3,3783	3,3783	3,3783	3,3783	3,3783	3,3783	3,3783	3,3783
P4H4	3							3,4033	3,4033	3,4033	3,4033	3,4033	3,4033	3,4033
P1H0	3								3,4383	3,4383	3,4383	3,4383	3,4383	3,4383
P3H4	3								3,4433	3,4433	3,4433	3,4433	3,4433	3,4433
P4H0	3								3,4683	3,4683	3,4683	3,4683	3,4683	3,4683
P2H0	3								3,4700	3,4700	3,4700	3,4700	3,4700	3,4700
P3H0	3									3,4983	3,4983	3,4983	3,4983	3,4983
P0H4	3										3,5150	3,5150	3,5150	3,5150
P0H0	3											3,6900	3,6900	3,6900
Sig.		,111	,110	,101	,055	,055	,077	,064	,064	,062	,074	,068	,115	1,000

Means for groups in homogeneous subsets are displayed.

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



## Lampiran 6. ANOVA analisis tekstur buah stroberi

Tabel 7. Data kekerasan buah stroberi selama penyimpanan

Kemasan	Lama penyimpanan				Rata-rata
	hari 0	hari 4	hari 8	hari 12	
P0	3,55 ±	3,65 ±	3,40 ±	3,05 ±	3,41 ±
	0,35	0,25	0,10	0,05	0,30 b
P1	3,50 ±	3,33 ±	3,05 ±	3,05	3,23 ±
	0,18	0,02	0,08	±0,05	0,21 a
P2	3,42 ±	3,43 ±	3,23 ±	3,02 ±	3,28 ±
	0,22	0,02	0,14	0,02	0,21 a
P3	3,28 ±	3,43 ±	3,22 ±	2,97 ±	3,23 ±
	0,25	0,12	0,07	0,02	0,21 a
P4	3,38 ±	3,45 ±	2,98 ±	2,97 ±	3,20 ±
	0,15	0,10	0,10	0,05	0,24 a
P5	3,38 ±	3,42 ±	3,05 ±	2,95 ± 0	3,20 ±
	0,30	0,15	0,08		0,26 a
P6	3,37 ±	3,37 ±	3,20 ±	3,00 ±	3,23 ±
	0,14	0,12	0,10	0,05	0,18 a
Rata-rata	3,41 ±	3,44 ±	3,16 ±	3,00 ±	3,25 ±
	0,21c	0,14c	0,16b	0,05a	0,23

### Tests of Between-Subjects Effects

Dependent Variable: Tekstur

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	3,684 <sup>a</sup>	29	,127	6,381	,000
Intercept	889,201	1	889,201	44664,371	,000
Biofoam	,403	6	,067	3,371	,007
Penyimpanan	2,787	3	,929	46,660	,000
Biofoam * Penyimpanan	,323	18	,018	,901	,580
Kelompok	,172	2	,086	4,310	,018
Error	1,075	54	,020		
Total	893,960	84			
Corrected Total	4,759	83			

a. R Squared = ,774 (Adjusted R Squared = ,653)

**Tekstur**

Duncan<sup>a,b</sup>

B = Biofoam	N	Subset	
		1	2
P4 = Serbuk kayu & sorgum	12	3,1958	
P5 = Jerami & sorgum	12	3,2000	
P3 = Jerami kapok & sorgum	12	3,2250	
P1 = Serbuk kayu & Jagung	12	3,2333	
P6 = Jerami kapok & gabah	12	3,2333	
P2 = Jerami & jagung	12	3,2750	
P0 = Styrofoam	12		3,4125
Sig.		,237	1,000

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = ,020.

a. Uses Harmonic Mean Sample Size = 12,000.

b. Alpha = ,05.

## Lampiran 7. ANOVA analisis *lightness* (L)

Tabel 8. Nilai kecerahan warna stroberi

Kemasan	Lightness (L)			
	Hari 0	Hari 4	Hari 8	Hari 12
P0	39,3 ± 0,8 mn	38,0 ± 0,4 klm	35,6 ± 1,3 hi	33,3 ± 0,6 ef
P1	38,9 ± 1,5 mn	36,4 ± 0,4 hijk	34,1 ± 0,2 fg	32,2 ± 0,4 bcde
P2	39,2 ± 0,3 mn	37,8 ± 0,5 klm	36,1 ± 0,2 hij	31,5 ± 1,6 abcd
P3	39,6 ± 1,3 n	37,1 ± 0,5 ijkl	33,1 ± 1,0 ef	30,1 ± 1,2 a
P4	37,7 ± 1,3 jklm	35,2 ± 1,2 gh	32,8 ± 0,2 def	30,9 ± 0,6 ab
P5	38,6 ± 0,6 lmn	35,4 ± 0,4 gh	33,2 ± 0,5 ef	30,8 ± 0,9 ab
P6	37,2 ± 1,2 ijkl	34,0 ± 0,5 fg	32,7 ± 0,2 cdef	31,2 ± 0,4 abc

### Tests of Between-Subjects Effects

Dependent Variable: Lightness

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Model	104023,752 <sup>a</sup>	30	3467,458	11020,647	,000
Biofoam	76,199	6	12,700	40,364	,000
Penyimpanan	601,023	3	200,341	636,745	,000
Kelompok	26,395	2	13,197	41,945	,000
Biofoam * Penyimpanan	31,269	18	1,737	5,521	,000
Error	16,990	54	,315		
Total	104040,743	84			

a. R Squared = 1,000 (Adjusted R Squared = 1,000)

**Lightness**

Duncan<sup>a,b</sup>

B = Biofoam	N	Subset			
		1	2	3	4
P6 = Jerami kapok & gabah	12	33,7833			
P4 = Serbuk kayu & sorgum	12	34,1333	34,1333		
P5 = Jerami & sorgum	12		34,4750		
P3 = Jerami kapok & sorgum	12			34,9667	
P1 = Serbuk kayu & Jagung	12			35,4083	
P2 = Jerami & jagung	12				36,1583
P0 = Styrofoam	12				36,5375
Sig.		,132	,142	,059	,104

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = ,315.

a. Uses Harmonic Mean Sample Size = 12,000.

b. Alpha = ,05.

**Lightness**

Duncan<sup>a,b</sup>

P = Penyimpanan	N	Subset			
		1	2	3	4
Hari 12	21	31,4286			
Hari 8	21		33,9429		
Hari 4	21			36,2643	
Hari 0	21				38,6286
Sig.		1,000	1,000	1,000	1,000

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = ,315.

a. Uses Harmonic Mean Sample Size = 21,000.

b. Alpha = ,05.

## Lampiran 8. Uji lanjutan Duncan analisis lightness buah stroberi

### ANOVA

Lightness

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	708,491	27	26,240	33,870	,000
Within Groups	43,385	56	,775		
Total	751,876	83			

### Lightness

Duncan<sup>a</sup>

Interaksi	N	Subset for alpha = 0.05													
		1	2	3	4	5	6	7	8	9	10	11	12	13	14
P3H12	3	30,1000													
P0H12	3	30,8000	30,8000												
P4H12	3	30,8667	30,8667												
P0H12	3	31,2000	31,2000	31,2000											
P3H12	3	31,5000	31,5000	31,5000	31,5000										
P1H12	3		32,2333	32,2333	32,2333	32,2333									
P0H8	3			32,7333	32,7333	32,7333	32,7333								
P4H8	3				32,8000	32,8000	32,8000								
P3H8	3					33,1333	33,1333								
P5H0	3						33,1667	33,1667							
P0H12	3						33,3000	33,3000							
P0H4	3							34,0333	34,0333						
P1H8	3								34,0667	34,0667					
P4H4	3									35,2000	35,2000				
P5H4	3										35,3667	35,3667			
P0H8	3											35,6000	35,6000		
P2H8	3												36,1000	36,1000	
P1H4	3													36,4000	36,4000
P3H4	3														37,0667
P6H0	3														37,1667
P4H0	3														37,6667
P2H4	3														37,8333
P0H4	3														37,9500
P5H0	3														38,5667
P1H0	3														38,9333
P2H0	3														39,2000
P0H0	3														39,3000
P3H0	3														39,5667
Sig.		,087	,080	,055	,104	,202	,114	,055	,143	,055	,055	,082	,071	,052	,051

Means for groups in homogeneous subsets are displayed.

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

## Lampiran 9. ANOVA analisis redness buah stroberi

Tabel 9. Nilai a\* buah stroberi selama penyimpanan

Kemasan	Redness (a*)			
	Hari 0	Hari 4	Hari 8	Hari 12
P0	39,3 ± 0,8 m	38,0 ± 0,4 m	35,6 ± 1,3 l	33,3 ± 0,6 ijk
P1	35,7 ± 1,3 l	33,0 ± 1,0 ijk	28,4 ± 0,5 de	21,3 ± 1,2 ab
P2	34,2 ± 1,1 jkl	32,2 ± 0,5 hij	29,6 ± 0,2 efg	22,1 ± 1,0 ab
P3	32,8 ± 1,7 ijk	30,2 ± 0,9 efgh	25,3 ± 0,4 c	23,1 ± 0,2 b
P4	34,2 ± 1,6 jkl	31,3 ± 1,3 fghi	29,0 ± 1,1 ef	20,4 ± 3,2 a
P5	33,2 ± 1,0 ijk	29,9 ± 0,8 efg	26,4 ± 0,7 cd	23,0 ± 1,8 b
P6	35,0 ± 0,7 kl	31,9 ± 0,6 ghij	26,8 ± 1,5 cd	20,0 ± 2,2 a

### Tests of Between-Subjects Effects

Dependent Variable: a

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Model	77122,483 <sup>a</sup>	30	2570,749	3720,772	,000
Biofoam	664,122	6	110,687	160,203	,000
Penyimpanan	1588,231	3	529,410	766,242	,000
Kelompok	50,455	2	25,228	36,513	,000
Biofoam * Penyimpanan	137,870	18	7,659	11,086	,000
Error	37,310	54	,691		
Total	77159,792	84			

a. R Squared = 1,000 (Adjusted R Squared = ,999)

a

Duncan<sup>a,b</sup>

B = Biofoam	N	Subset			
		1	2	3	4
P3 = Jerami kapok & sorgum	12	27,8250			
P5 = Jerami & sorgum	12	28,1167	28,1167		
P6 = Jerami kapok & gabah	12	28,4083	28,4083		
P4 = Serbuk kayu & sorgum	12		28,7250		
P2 = Jerami & jagung	12			29,5083	
P1 = Serbuk kayu & Jagung	12			29,6000	
P0 = Styrofoam	12				36,5375
Sig.		,110	,095	,788	1,000

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = ,691.

a. Uses Harmonic Mean Sample Size = 12,000.

b. Alpha = ,05.

**a**

Duncan<sup>a,b</sup>

P = Penyimpanan	N	Subset			
		1	2	3	4
Hari 12	21	23,3095			
Hari 8	21		28,7333		
Hari 4	21			32,3310	
Hari 0	21				34,8952
Sig.		1,000	1,000	1,000	1,000

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = ,691.

a. Uses Harmonic Mean Sample Size = 21,000.

b. Alpha = ,05.

## Lampiran 10. Uji lanjutan Duncan analisis *redness* buah stroberi

### ANOVA

a

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	2390,222	27	88,527	56,486	,000
Within Groups	87,765	56	1,567		
Total	2477,987	83			

a

Duncan <sup>a</sup>		Subset for alpha = 0,05												
Interaksi	N	1	2	3	4	5	6	7	8	9	10	11	12	13
P6H12	3	19,9667												
P4H12	3	20,4333												
P1H12	3	21,2667	21,2667											
P2H12	3	22,0667	22,0667											
P5H12	3		23,0333											
P3H12	3		23,1000											
P3H8	3			25,2667										
P5H8	3			26,4000	26,4000									
P6H8	3			26,7667	26,7667									
P1H8	3				26,4333	26,4333								
P4H8	3					29,0333	29,0333							
P2H8	3					29,6333	29,6333	29,6333						
P5H4	3					29,8667	29,8667	29,8667						
P3H4	3					30,1667	30,1667	30,1667	30,1667					
P4H4	3						31,2667	31,2667	31,2667	31,2667				
P6H4	3							31,9000	31,9000	31,9000	31,9000			
P2H4	3								32,1667	32,1667	32,1667			
P3H0	3									32,7667	32,7667	32,7667		
P1H4	3									33,0000	33,0000	33,0000		
P5H0	3									33,1667	33,1667	33,1667		
P0H12	3									33,3000	33,3000	33,3000		
P2H0	3										34,1667	34,1667	34,1667	
P4H0	3										34,1667	34,1667	34,1667	
P6H0	3											35,0000	35,0000	
P0H8	3												35,6000	
P1H0	3												35,7000	
P0H4	3													37,9500
P0H0	3													39,3000
Sig.		,064	,107	,172	,064	,137	,054	,051	,078	,090	,061	,062	,189	,192

Means for groups in homogeneous subsets are displayed.

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



**Lampiran 11. ANOVA analisis *yellowness* buah stroberi**

Tabel 10. Nilai b\* buah stroberi selama penyimpanan

Kemasan	Yellowness (b)			
	Hari 0	Hari 4	Hari 8	Hari 12
P0	24,8 ± 1,6 jk	22,7 ± 0,1 hi	21,4 ± 0,9 fgh	18,4 ± 0,6 bc
P1	27,4 ± 2,1 m	22,7 ± 0,9 hi	20,1 ± 0,2 def	17,7 ± 1,0 b
P2	26,9 ± 1,0 lm	25,2 ± 0,5 jkl	22,5 ± 0,7 ghi	17,5 ± 0,4 b
P3	26,3 ± 0,2 klm	24,0 ± 1,2 ij	18,9 ± 0,6 bcd	15,8 ± 1,3 a
P4	24,3 ± 0,3 ij	22,6 ± 0,9 ghi	20,4 ± 0 def	15,5 ± 0,2 a
P5	26,6 ± 0,7 lm	20,9 ± 0,2 efg	17,4 ± 0,4 b	14,9 ± 1,0 a
P6	26,3 ± 2,1 klm	20,8 ± 0,5 ef	19,6 ± 0,5 cde	15,4 ± 0,6 a

**b**

Duncan<sup>a,b</sup>

B = Biofoam	N	Subset				
		1	2	3	4	5
P5 = Jerami & sorgum	12	19,9667				
P6 = Jerami kapok & gabah	12		20,5500			
P4 = Serbuk kayu & sorgum	12		20,6750			
P3 = Jerami kapok & sorgum	12			21,2417		
P0 = Styrofoam	12				21,8250	
P1 = Serbuk kayu & Jagung	12				21,9833	
P2 = Jerami & jagung	12					23,0417
Sig.		1,000	,645	1,000	,560	1,000

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = ,438.

a. Uses Harmonic Mean Sample Size = 12,000.

b. Alpha = ,05.

**b**

Duncan<sup>a,b</sup>

P = Penyimpanan	N	Subset			
		1	2	3	4
Hari 12	21	16,4571			
Hari 8	21		20,0476		
Hari 4	21			22,7190	
Hari 0	21				26,0810
Sig.		1,000	1,000	1,000	1,000

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = ,438.

a. Uses Harmonic Mean Sample Size = 21,000.

b. Alpha = ,05.

## Lampiran 12. Uji lanjutan Duncan analisis *yellowness* buah stroberi

### ANOVA

b

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	1198,196	27	44,378	50,402	,000
Within Groups	49,307	56	,880		
Total	1247,502	83			

b

Duncan<sup>a</sup>

Interaksi	N	Subset for alpha = 0.05												
		1	2	3	4	5	6	7	8	9	10	11	12	13
P5H12	3	14,9333												
P6H12	3	15,4333												
P4H12	3	15,4667												
P3H12	3	15,8000												
P5H8	3		17,4000											
P2H12	3		17,4667											
P1H12	3		17,7000											
P0H12	3		18,4000	18,4000										
P3H8	3		18,9000	18,9000	18,9000									
P6H8	3			19,6000	19,6000	19,6000								
P1H8	3				20,1333	20,1333	20,1333							
P4H8	3				20,3667	20,3667	20,3667							
P6H4	3					20,8333	20,8333							
P5H4	3					20,8333	20,9333	20,9333						
P0H8	3						21,4000	21,4000	21,4000					
P2H8	3							22,5333	22,5333	22,5333				
P4H4	3								22,6000	22,6000	22,6000			
P0H4	3									22,7000	22,7000			
P1H4	3										22,7333			
P3H4	3											24,0000		
P4H0	3												24,0000	
P0H0	3													24,2667
P2H4	3													24,8000
P3H0	3													25,2333
P6H0	3													25,2333
P5H0	3													25,2333
P2H0	3													26,2667
P1H0	3													26,2667
Sig.		,310	,085	,145	,085	,127	,147	,050	,127	,050	,148	,072	,051	,209

Means for groups in homogeneous subsets are displayed

a. Uses Harmonic Mean Sample Size = 3,000

## Lampiran 13. ANOVA analisis derajat Hue buah stroberi

### Tests of Between-Subjects Effects

Dependent Variable: Hue

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Model	107408,127 <sup>a</sup>	30	3580,271	2473,485	,000
Biofoam	398,693	6	66,449	45,907	,000
Penyimpanan	42,569	3	14,190	9,803	,000
Kelompok	2,144	2	1,072	,741	,482
Biofoam * Penyimpanan	171,579	18	9,532	6,585	,000
Error	78,163	54	1,447		
Total	107486,290	84			

a. R Squared = ,999 (Adjusted R Squared = ,999)

### Hue

Duncan<sup>a,b</sup>

B = Biofoam	N	Subset				
		1	2	3	4	5
P0 = Styrofoam	12	30,7750				
P5 = Jerami & sorgum	12		35,0167			
P4 = Serbuk kayu & sorgum	12		35,9250	35,9250		
P6 = Jerami kapok & gabah	12		36,0167	36,0167		
P1 = Serbuk kayu & Jagung	12			36,7667	36,7667	
P3 = Jerami kapok & sorgum	12				37,0917	37,0917
P2 = Jerami & jagung	12					38,0000
Sig.		1,000	,058	,111	,511	,070

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = 1,447.

a. Uses Harmonic Mean Sample Size = 12,000.

b. Alpha = ,05.

### Hue

Duncan<sup>a,b</sup>

P = Penyimpanan	N	Subset	
		1	2
Hari 8	21	34,9952	
Hari 4	21	35,1571	
Hari 12	21	35,6571	
Hari 0	21		36,8143
Sig.		,097	1,000

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = 1,447.

a. Uses Harmonic Mean Sample Size = 21,000.

b. Alpha = ,05.

## Lampiran 14. Uji lanjutan Duncan analisis derajat Hue buah stroberu

### ANOVA

Hue

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	612,840	27	22,698	15,828	,000
Within Groups	80,307	56	1,434		
Total	693,147	83			

Hue

Duncan <sup>a</sup>		Subset for alpha = 0,05												
Interaksi	N	1	2	3	4	5	6	7	8	9	10	11	12	13
P0H12	3	28,9333												
P0H4	3		30,9000											
P0H8	3		31,0000											
P0H0	3		32,2667	32,2667										
P5H12	3		32,9667	32,9667	32,9667									
P6H4	3			33,1333	33,1333	33,1333								
P5H8	3			33,3667	33,3667	33,3667								
P3H12	3			34,3333	34,3333	34,3333	34,3333							
P1H4	3				34,5667	34,5667	34,5667	34,5667						
P4H8	3				35,0333	35,0333	35,0333	35,0333	35,0333					
P5H4	3				35,0333	35,0333	35,0333	35,0333	35,0333					
P1H8	3					35,3000	35,3000	35,3000	35,3000	35,3000				
P4H0	3					35,4000	35,4000	35,4000	35,4000	35,4000				
P4H4	3						35,8667	35,8667	35,8667	35,8667	35,8667			
P6H8	3						36,2333	36,2333	36,2333	36,2333	36,2333	36,2333		
P3H8	3							36,8000	36,8000	36,8000	36,8000	36,8000	36,8000	
P6H0	3								36,9000	36,9000	36,9000	36,9000	36,9000	
P2H8	3								37,2333	37,2333	37,2333	37,2333	37,2333	
P4H12	3									37,4000	37,4000	37,4000	37,4000	
P1H0	3									37,4333	37,4333	37,4333	37,4333	
P6H12	3										37,8000	37,8000	37,8000	37,8000
P2H4	3										38,1000	38,1000	38,1000	38,1000
P2H0	3											38,2667	38,2667	38,2667
P2H12	3												38,4000	38,4000
P3H4	3													38,5000
P5H0	3													38,7000
P3H0	3													38,7333
P1H12	3													39,7667
Sig.		1,000	,057	,063	,071	,050	,102	,054	,060	,068	,058	,056	,105	,090

Means for groups in homogeneous subsets are displayed

a. Uses Harmonic Mean Sample Size = 3,000

### Lampiran 15. ANOVA analisis vitamin C buah stroberi

Tabel 11. Persentase vitamin C buah stroberi selama penyimpanan

Kemasan	Lama penyimpanan				Rata-rata
	Hari 0	Hari 4	Hari 8	Hari 12	
P0	1,89 ± 0 cde	0,54 ± 0 a	1,09 ± 0 abc	1,05 ± 0 abc	1,14 ± 0,5 a
P1	1,18 ± 0,52 abcd	1,51 ± 0,54 bcde	1,57 ± 0,24 cde	1,36 ± 0,32 abcde	1,41 ± 0,39 ab
P2	1,72 ± 0,27 cde	1,88 ± 0,33 cde	1,38 ± 0,49 cde	1,45 ± 0,39 bcde	1,61 ± 0,38 bc
P3	2,06 ± 0,23 bcde	2,20 ± 0,35 e	1,48 ± 0,43 bcde	1,46 ± 0,66 bcde	1,80 ± 0,51 c
P4	1,96 ± 0,08 de	1,60 ± 0,74 cde	1,09 ± 0,21 abc	0,70 ± 0,39 bc	1,34 ± 0,62 ab
P5	1,50 ± 0,77 bcde	1,73 ± 0,06 cde	1,53 ± 0,17 bcde	0,70 ± 0,25 ab	1,36 ± 0,54 ab
P6	2,08 ± 0,33 e	1,03 ± 0,91 abc	1,60 ± 0,53 cde	1,09 ± 0,59 abc	1,45 ± 0,69 abc
Rata-rata	1,77 ± 0,46 c	1,50 ± 0,68 b	1,39 ± 0,35 b	1,12 ± 0,47 a	1,44 ± 0,55

**Tests of Between-Subjects Effects**

Dependent Variable: Vitamin\_C

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	14,917 <sup>a</sup>	29	,514	2,715	,001
Intercept	175,047	1	175,047	923,983	,000
Biofoam	3,154	6	,526	2,775	,020
Penyimpanan	4,593	3	1,531	8,081	,000
Biofoam * Penyimpanan	7,107	18	,395	2,084	,020
Kelompok	,064	2	,032	,170	,844
Error	10,230	54	,189		
Total	200,195	84			
Corrected Total	25,148	83			

a. R Squared = ,593 (Adjusted R Squared = ,375)

**Vitamin\_C**

Duncan<sup>a,b</sup>

B = Biofoam	N	Subset		
		1	2	3
P0 = Styrofoam	12	1,1425		
P4 = Serbuk kayu & sorgum	12	1,3367	1,3367	
P5 = Jerami & sorgum	12	1,3642	1,3642	
P1 = Serbuk kayu & Jagung	12	1,4067	1,4067	
P6 = Jerami kapok & gabah	12	1,4492	1,4492	1,4492
P2 = Jerami & jagung	12		1,6067	1,6067
P3 = Jerami kapok & sorgum	12			1,7992
Sig.		,130	,183	,067

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = ,189.

a. Uses Harmonic Mean Sample Size = 12,000.

b. Alpha = ,05.

**Vitamin\_C**

Duncan<sup>a,b</sup>

P = Penyimpanan	N	Subset		
		1	2	3
Hari 12	21	1,1167		
Hari 8	21		1,3900	
Hari 4	21		1,4986	
Hari 0	21			1,7690
Sig.		1,000	,422	1,000

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = ,189.

a. Uses Harmonic Mean Sample Size = 21,000.

b. Alpha = ,05.

## Lampiran 16. Uji lanjutan Duncan analisis vitamin C buah stroberi

### ANOVA

Vitamin\_C

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	14,853	27	,550	2,992	,000
Within Groups	10,295	56	,184		
Total	25,148	83			

### Vitamin\_C

Duncan<sup>a</sup>

interaksi	N	Subset for alpha = 0.05				
		1	2	3	4	5
P0H4	3	,5400				
P5H12	3	,6967	,6967			
P4H12	3	,7000	,7000			
P6H4	3	1,0300	1,0300	1,0300		
P0H12	3	1,0500	1,0500	1,0500		
P4H8	3	1,0867	1,0867	1,0867		
P0H8	3	1,0900	1,0900	1,0900		
P6H12	3	1,0933	1,0933	1,0933		
P1H0	3	1,1833	1,1833	1,1833	1,1833	
P1H12	3	1,3600	1,3600	1,3600	1,3600	1,3600
P2H8	3		1,3800	1,3800	1,3800	1,3800
P2H12	3		1,4533	1,4533	1,4533	1,4533
P3H12	3		1,4633	1,4633	1,4633	1,4633
P3H8	3		1,4767	1,4767	1,4767	1,4767
P5H0	3		1,4967	1,4967	1,4967	1,4967
P1H4	3		1,5133	1,5133	1,5133	1,5133
P5H8	3		1,5300	1,5300	1,5300	1,5300
P1H8	3			1,5700	1,5700	1,5700
P4H4	3			1,5967	1,5967	1,5967
P6H8	3			1,5967	1,5967	1,5967
P2H0	3			1,7167	1,7167	1,7167
P5H4	3			1,7333	1,7333	1,7333
P2H4	3			1,8767	1,8767	1,8767
P0H0	3			1,8900	1,8900	1,8900
P4H0	3				1,9633	1,9633
P3H0	3					2,0567
P6H0	3					2,0767
P3H4	3					2,2000
Sig.		,052	,055	,050	,073	,055

Means for groups in homogeneous subsets are displayed.

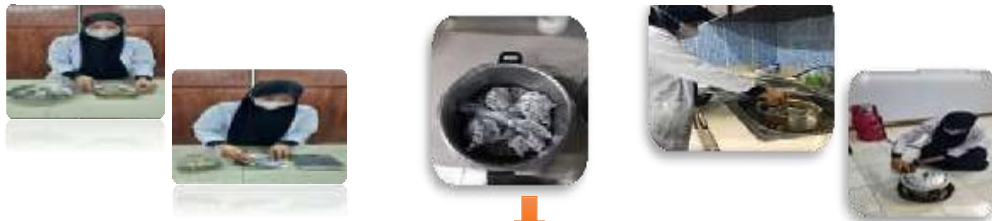
a. Uses Harmonic Mean Sample Size = 3,000.

## Lampiran 17. Prosedur pembuatan *biofoam*

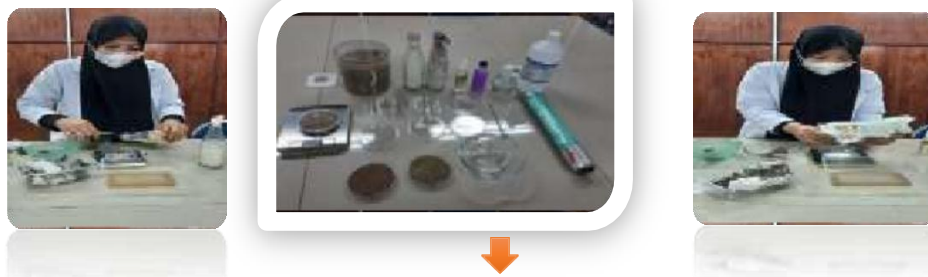
### Tahap 1. Penyediaan



### Tahap 2. Persiapan



### Tahap 3. Pembuatan sampel



### Tahap 4. Inkubasi dan



### Tahap 5. Pengeringan



### Tahap 6. Sampel yang telah jadi selanjutnya akan dikarakterisasi





**Lampiran 18. Dokumentasi uji morfologi (SEM)**



**Lampiran 19. Dokumentasi uji daya serap air**



Lampiran 20. Dokumentasi uji biodegradibilitas *biofoam*



Lampiran 21. Dokumentasi uji pH



Lampiran 22. Dokumentasi uji kekerasan (tekstur)



Lampiran 23. Dokumentasi uji warna



Lampiran 24. Dokumentasi uji vitamin C (Spektrofotometri)

