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LAMPIRAN

Lampiran 1. Dokumentasi buah langsung selama penyimpanan

































Tabel 12. Dokumentasi buah langsung selama penyimpanan.

Perlakuan	Lama Penyimpanan (Hari)					
	1	2	3	4	5	
Kontrol						
	6	7	8	9	10	
						
	11	12	13	14		
						
	Perlakuan	Lama Penyimpanan (Hari)				
		1	2	3	4	5
	0% Asam Askorbat & Dengan Kemasan					
		6	7	8	9	10
						
11		12	13	14		
						
Perlakuan		Lama Penyimpanan (Hari)				
		1	2	3	4	5
1,5% Asam Askorbat & Tanpa Kemasan						

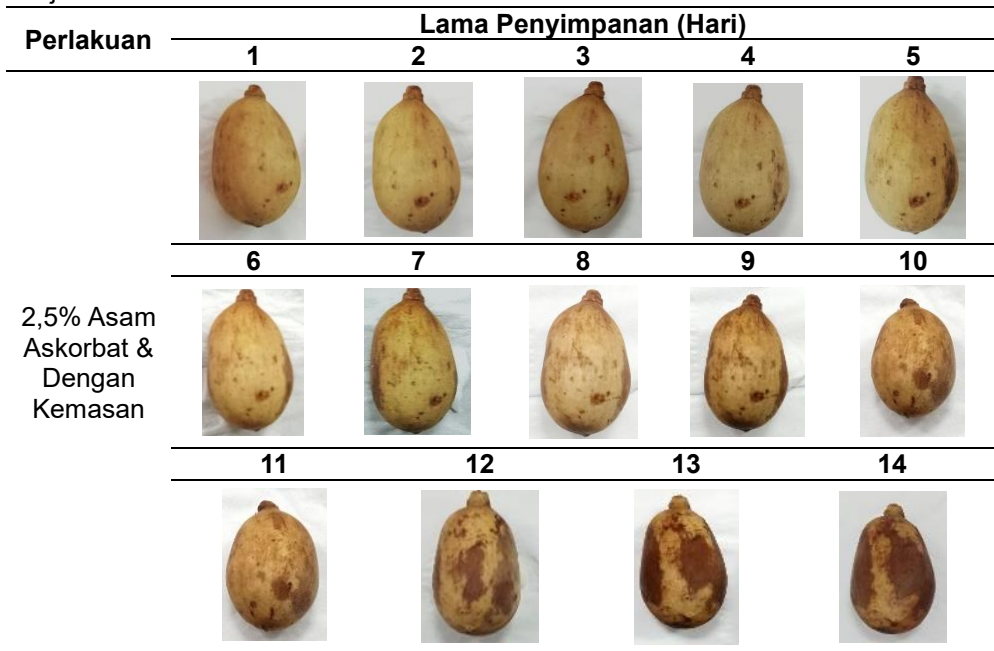
Lanjutan Tabel 12.

	6	7	8	9	10
					
	11	12	13	14	
					
Perlakuan	Lama Penyimpanan (Hari)				
	1	2	3	4	5
					
	6	7	8	9	10
1,5% Asam Askorbat & Dengan Kemasan					
	11	12	13	14	
					
Perlakuan	Lama Penyimpanan (Hari)				
	1	2	3	4	5
2% Asam Askorbat & Tanpa Kemasan					
	6	7	8	9	10
					

Lanjutan Tabel 12.

	11	12	13	14	
					
Perlakuan	Lama Penyimpanan (Hari)				
	1	2	3	4	5
					
	6	7	8	9	10
2% Asam Askorbat & Dengan Kemasan					
	11	12	13	14	
					
Perlakuan	Lama Penyimpanan (Hari)				
	1	2	3	4	5
2,5% Asam Askorbat & Tanpa Kemasan					
	6	7	8	9	10
					
	11	12	13	14	
					

Lanjutan Tabel 12.



Lampiran 2. Hasil Analisis Parameter Warna

1. Nilai L*

a. H-1

ANOVA

warnaL

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	79.668	7	11.381	2.185	.093
Within Groups	83.349	16	5.209		
Total	163.017	23			

warnaL

Duncan^a

perlakuan	N	Subset for alpha = 0.05	
		1	2
Perlakuan 0	3	60.3333	
Perlakuan 2	3	61.6867	61.6867
perlakuan 4	3	61.8433	61.8433
perlakuan 6	3	63.7800	63.7800
perlakuan 5	3	64.2867	64.2867
perlakuan 3	3	64.6900	64.6900
Perlakuan 1	3		65.2533
perlakuan 7	3		65.8067
Sig.		.052	.067

Means for groups in homogeneous subsets are displayed.

b. H-3

ANOVA

warnal

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	770.567	7	110.081	8.594	.000
Within Groups	204.935	16	12.808		
Total	975.502	23			

warnalDuncan^a

perlakuan	N	Subset for alpha = 0.05		
		1	2	3
Perlakuan 0	3	48.9500		
Perlakuan 2	3	51.8933	51.8933	
perlakuan 4	3	55.3733	55.3733	
perlakuan 6	3		57.9667	57.9667
Perlakuan 1	3			63.0533
perlakuan 3	3			63.7667
perlakuan 5	3			63.8433
perlakuan 7	3			64.4267
Sig.		.052	.065	.062

c. H-5

ANOVA

warnal

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	824.508	7	117.787	26.165	.000
Within Groups	72.028	16	4.502		
Total	896.536	23			

warnalDuncan^a

perlakuan	N	Subset for alpha = 0.05		
		1	2	3
Perlakuan 0	3	44.3900		
Perlakuan 2	3		49.5467	
perlakuan 4	3		51.3100	
perlakuan 6	3		52.7300	
Perlakuan 1	3			57.9400
perlakuan 3	3			60.2100
perlakuan 5	3			60.7533
perlakuan 7	3			61.7167
Sig.		1.000	.100	.061

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

d. H-7

ANOVA

warnaL

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	758.462	7	108.352	24.290	.000
Within Groups	71.373	16	4.461		
Total	829.835	23			

warnaLDuncan^a

perlakuan	N	Subset for alpha = 0.05				
		1	2	3	4	5
Perlakuan 0	3	42.5133				
Perlakuan 2	3		46.5700			
perlakuan 4	3		49.0367	49.0367		
perlakuan 6	3			51.2333	51.2333	
Perlakuan 1	3				53.6000	
perlakuan 3	3					57.2900
perlakuan 5	3					58.3867
perlakuan 7	3					59.2867
Sig.		1.000	.172	.221	.189	.289

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

e. H-9

ANOVA

warnaL

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	695.065	7	99.295	19.425	.000
Within Groups	81.788	16	5.112		
Total	776.853	23			

warnaLDuncan^a

perlakuan	N	Subset for alpha = 0.05			
		1	2	3	4
Perlakuan 0	3	41.1833			
Perlakuan 2	3		45.6067		
perlakuan 4	3		47.9000	47.9000	
perlakuan 6	3			49.7167	
Perlakuan 1	3			50.1867	
perlakuan 3	3				55.6200
perlakuan 5	3				56.6067
perlakuan 7	3				57.5700
Sig.		1.000	.232	.257	.332

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000

f. H-11

ANOVA

warnal

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	542.536	7	77.505	17.106	.000
Within Groups	72.492	16	4.531		
Total	615.028	23			

warnalDuncan^a

perlakuan	N	Subset for alpha = 0.05		
		1	2	3
Perlakuan 0	3	39.6700		
Perlakuan 2	3	43.2100	43.2100	
perlakuan 4	3		45.1967	
perlakuan 6	3		46.6300	
Perlakuan 1	3		46.8967	
perlakuan 3	3			51.1633
perlakuan 5	3			53.5833
perlakuan 7	3			54.1567
Sig.		.059	.067	.121

Means for groups in homogeneous subsets are displayed.

g. H-13

ANOVA

warnal

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	234.244	7	33.463	6.025	.001
Within Groups	88.868	16	5.554		
Total	323.113	23			

warnalDuncan^a

perlakuan	N	Subset for alpha = 0.05		
		1	2	3
Perlakuan 0	3	37.3133		
Perlakuan 2	3	40.9500	40.9500	
Perlakuan 1	3	41.1433	41.1433	
perlakuan 4	3		41.9233	
perlakuan 6	3		43.5867	43.5867
perlakuan 3	3		44.2833	44.2833
perlakuan 5	3			46.9433
perlakuan 7	3			47.4067
Sig.		.076	.136	.085

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

h. H-14

ANOVA

warnal

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	226.150	7	32.307	4.884	.004
Within Groups	105.838	16	6.615		
Total	331.987	23			

warnalDuncan^a

perlakuan	N	Subset for alpha = 0.05			
		1	2	3	4
Perlakuan 0	3	34.1567			
Perlakuan 1	3	37.4033	37.4033		
Perlakuan 2	3	37.4233	37.4233		
perlakuan 4	3	37.9567	37.9567		
perlakuan 6	3	38.8033	38.8033	38.8033	
perlakuan 3	3		40.8633	40.8633	40.8633
perlakuan 5	3			43.2233	43.2233
perlakuan 7	3				43.9867
Sig.		.062	.155	.062	.177

Means for groups in homogeneous subsets are displayed.

2. Nilai a*

a. H-1

ANOVA

WarnaA

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	16.825	7	2.404	10.876	.000
Within Groups	3.536	16	.221		
Total	20.361	23			

WarnaADuncan^a

perlakuan	N	Subset for alpha = 0.05	
		1	2
perlakuan 7	3	6.9167	
perlakuan 6	3	6.9333	
perlakuan 5	3	6.9567	
perlakuan 3	3	7.1800	
perlakuan 4	3	7.3000	
Perlakuan 1	3	7.4200	
Perlakuan 2	3	7.5967	
Perlakuan 0	3		9.6200
Sig.		.136	1.000

Means for groups in homogeneous subsets are displayed.

b. H-3

ANOVA

warnaA					
	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	34.368	7	4.910	20.384	.000
Within Groups	3.854	16	.241		
Total	38.221	23			

warnaADuncan^a

perlakuan	N	Subset for alpha = 0.05		
		1	2	3
perlakuan 7	3	7.4933		
perlakuan 5	3	7.5600		
perlakuan 3	3	7.8133		
perlakuan1	3	7.9833		
perlakuan 4	3		9.6700	
perlakuan 6	3		9.7867	9.7867
perlakuan 2	3		9.9967	9.9967
perlakuan 0	3			10.6567
Sig.		.277	.452	.055

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

c. H-5

ANOVA

WarnaA					
	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	25.529	7	3.647	22.958	.000
Within Groups	2.542	16	.159		
Total	28.070	23			

WarnaADuncan^a

perlakuan	N	Subset for alpha = 0.05			
		1	2	3	4
perlakuan 7	3	8.1500			
perlakuan 5	3	8.2533			
perlakuan 3	3	8.3167			
Perlakuan 1	3		9.1567		
perlakuan 4	3		9.8433	9.8433	
perlakuan 6	3			9.9433	
Perlakuan 2	3			10.2467	
Perlakuan 0	3				11.1867
Sig.		.635	.051	.257	1.000

Means for groups in homogeneous subsets are displayed.

d. H-7

ANOVA

WarnaA

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	24.084	7	3.441	25.723	.000
Within Groups	2.140	16	.134		
Total	26.225	23			

WarnaADuncan^a

perlakuan	N	Subset for alpha = 0.05			
		1	2	3	4
perlakuan 7	3	8.7233			
perlakuan 5	3	8.8767			
perlakuan 3	3	8.9000			
Perlakuan 1	3		9.8600		
perlakuan 6	3		10.0467	10.0467	
perlakuan 4	3		10.2200	10.2200	
Perlakuan 2	3			10.6767	
Perlakuan 0	3				11.8667
Sig.		.583	.270	.062	1.000

Means for groups in homogeneous subsets are displayed.

e. H-9

ANOVA

WarnaA

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	17.380	7	2.483	10.773	.000
Within Groups	3.688	16	.230		
Total	21.068	23			

WarnaADuncan^a

perlakuan	N	Subset for alpha = 0.05		
		1	2	3
perlakuan 7	3	9.4800		
perlakuan 5	3	9.5767		
perlakuan 3	3	9.6800		
Perlakuan 1	3		10.5900	
perlakuan 6	3		11.0500	11.0500
perlakuan 4	3		11.1400	11.1400
Perlakuan 2	3		11.2200	11.2200
Perlakuan 0	3			11.9300
Sig.		.636	.158	.054

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

f. H-11

ANOVA					
WarnaA					
	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	8.966	7	1.281	6.444	.001
Within Groups	3.180	16	.199		
Total	12.146	23			

WarnaA					
Duncan ^a					
perlakuan	N	Subset for alpha = 0.05			
		1	2	3	4
perlakuan 7	3	10.6233			
perlakuan 3	3	10.7633	10.7633		
perlakuan 5	3	10.7867	10.7867		
Perlakuan 1	3		11.5267	11.5267	
perlakuan 6	3			11.7633	11.7633
perlakuan 4	3			11.8100	11.8100
Perlakuan 2	3			11.8333	11.8333
Perlakuan 0	3				12.4567
Sig.		.677	.063	.450	.098

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

g. H-13

ANOVA					
WarnaA					
	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	4.459	7	.637	1.996	.120
Within Groups	5.106	16	.319		
Total	9.566	23			

WarnaA			
Duncan ^a			
perlakuan	N	Subset for alpha = 0.05	
		1	2
perlakuan 7	3	11.6467	
perlakuan 5	3	11.7533	11.7533
perlakuan 3	3	11.8233	11.8233
Perlakuan 1	3	12.2300	12.2300
perlakuan 6	3	12.5833	12.5833
perlakuan 4	3	12.6033	12.6033
Perlakuan 2	3	12.6400	12.6400
Perlakuan 0	3		12.8033
Sig.		.074	.060

Means for groups in homogeneous subsets are displayed.

h. H-14

ANOVA

WarnaA

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	1.692	7	.242	1.000	.466
Within Groups	3.867	16	.242		
Total	5.559	23			

WarnaADuncan^a

perlakuan	N	Subset for alpha = 0.05 1
perlakuan 7	3	12.5767
perlakuan 5	3	12.6900
perlakuan 3	3	12.7300
perlakuan 6	3	13.0000
perlakuan 4	3	13.0300
Perlakuan 1	3	13.0433
Perlakuan 2	3	13.1367
Perlakuan 0	3	13.4567
Sig.		.071

Means for groups in homogeneous

3. Nilai b*

a. H-1

ANOVA

warnab

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	10.212	7	1.459	.906	.526
Within Groups	25.768	16	1.610		
Total	35.980	23			

warnabDuncan^a

perlakuan	N	Subset for alpha = 0.05 1
Perlakuan 2	3	32.7200
Perlakuan 1	3	32.8500
Perlakuan 0	3	33.5067
perlakuan 4	3	33.8667
perlakuan 6	3	34.2400
perlakuan 3	3	34.3300
perlakuan 5	3	34.3467
perlakuan 7	3	34.4867
Sig.		.152

Means for groups in homogeneous subsets are displayed.

b. H-3

ANOVA

warnab

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	49.678	7	7.097	3.790	.013
Within Groups	29.959	16	1.872		
Total	79.637	23			

warnabDuncan^a

perlakuan	N	Subset for alpha = 0.05		
		1	2	3
Perlakuan 0	3	29.5967		
Perlakuan 2	3	30.5100	30.5100	
perlakuan 4	3	31.0667	31.0667	31.0667
perlakuan 6	3	31.8467	31.8467	31.8467
Perlakuan 1	3		32.2600	32.2600
perlakuan 3	3			33.5333
perlakuan 5	3			33.5933
perlakuan 7	3			33.6467
Sig.		.081	.168	.055

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

c. H-5

ANOVA

warnab

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	325.251	7	46.464	13.808	.000
Within Groups	53.840	16	3.365		
Total	379.091	23			

warnabDuncan^a

perlakuan	N	Subset for alpha = 0.05		
		1	2	3
Perlakuan 0	3	23.5033		
Perlakuan 2	3	24.9767	24.9767	
perlakuan 4	3	26.3967	26.3967	
perlakuan 6	3		27.5700	
Perlakuan 1	3			31.5833
perlakuan 3	3			32.2233
perlakuan 5	3			33.0200
perlakuan 7	3			33.4767
Sig.		.085	.119	.262

d. H-7

ANOVA

warnab

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	303.858	7	43.408	13.158	.000
Within Groups	52.786	16	3.299		
Total	356.644	23			

warnabDuncan^a

perlakuan	N	Subset for alpha = 0.05		
		1	2	3
Perlakuan 0	3	22.8867		
Perlakuan 2	3	24.8100	24.8100	
perlakuan 4	3	25.8700	25.8700	
perlakuan 6	3		27.0867	
Perlakuan 1	3			30.4533
perlakuan 3	3			31.9200
perlakuan 5	3			32.4733
perlakuan 7	3			32.4933
Sig.		.073	.164	.223

e. H-9

ANOVA

warnab

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	213.445	7	30.492	4.637	.005
Within Groups	105.220	16	6.576		
Total	318.665	23			

warnabDuncan^a

perlakuan	N	Subset for alpha = 0.05			
		1	2	3	4
Perlakuan 0	3	22.7000			
Perlakuan 2	3	24.6967	24.6967		
perlakuan 4	3	25.8400	25.8400	25.8400	
perlakuan 6	3	26.9667	26.9667	26.9667	26.9667
Perlakuan 1	3		28.3367	28.3367	28.3367
perlakuan 3	3			30.5367	30.5367
perlakuan 5	3				30.9700
perlakuan 7	3				31.4400
Sig.		.078	.128	.054	.070

f. H-11

ANOVA

warnab

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	164.116	7	23.445	6.692	.001
Within Groups	56.056	16	3.503		
Total	220.172	23			

warnabDuncan^a

perlakuan	N	Subset for alpha = 0.05				
		1	2	3	4	5
Perlakuan 0	3	21.9000				
Perlakuan 2	3	24.2333	24.2333			
perlakuan 4	3	25.2400	25.2400	25.2400		
perlakuan 6	3		26.1933	26.1933		
Perlakuan 1	3		26.4867	26.4867	26.4867	
perlakuan 3	3			28.0967	28.0967	28.0967
perlakuan 5	3				29.8600	29.8600
perlakuan 7	3					30.0900
Sig.		.054	.193	.103	.051	.234

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

g. H-13

ANOVA

warnab

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	62.466	7	8.924	3.947	.011
Within Groups	36.175	16	2.261		
Total	98.641	23			

warnabDuncan^a

perlakuan	N	Subset for alpha = 0.05	
		1	2
Perlakuan 0	3	21.2633	
perlakuan 4	3	22.6167	
Perlakuan 2	3	22.6733	
perlakuan 6	3	23.1300	23.1300
Perlakuan 1	3	23.7467	23.7467
perlakuan 3	3		25.6500
perlakuan 5	3		25.7100
perlakuan 7	3		25.8500
Sig.		.085	.061

h. H-14

ANOVA

warnab

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	13.810	7	1.973	1.702	.179
Within Groups	18.546	16	1.159		
Total	32.356	23			

warnabDuncan^a

perlakuan	N	Subset for alpha = 0.05	
		1	2
Perlakuan 0	3	20.9167	
perlakuan 4	3	21.8400	21.8400
Perlakuan 2	3	21.8433	21.8433
perlakuan 6	3	21.8600	21.8600
Perlakuan 1	3	22.4600	22.4600
perlakuan 3	3		23.0033
perlakuan 5	3		23.0933
perlakuan 7	3		23.2633
Sig.		.131	.170

4. Nilai ΔE

a. H-1

ANOVA ΔE

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	91.581	7	13.083	1.825	.151
Within Groups	114.720	16	7.170		
Total	206.301	23			

 ΔE Duncan^a

perlakuan	N	Subset for alpha = 0.05	
		1	2
perlakuan 7	3	2.5167	
perlakuan 1	3	2.9067	2.9067
perlakuan 5	3	3.5600	3.5600
perlakuan 3	3	4.0767	4.0767
perlakuan 2	3	5.0733	5.0733
perlakuan 6	3	5.4800	5.4800
perlakuan 4	3		7.8033
perlakuan 0	3		8.0000
Sig.		.243	.055

b. H-3

ANOVA ΔE

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	84.163	7	12.023	1.664	.188
Within Groups	115.596	16	7.225		
Total	199.759	23			

 ΔE Duncan^a

perlakuan	N	Subset for alpha = 0.05	
		1	2
perlakuan 3	3	1.3867	
perlakuan 7	3	1.9767	1.9767
perlakuan 5	3	2.0633	2.0633
perlakuan 1	3	2.2833	2.2833
perlakuan 2	3	3.6100	3.6100
perlakuan 6	3	4.2167	4.2167
perlakuan 0	3	5.9700	5.9700
perlakuan 4	3		6.8333
Sig.		.082	.067

c. H-5

ANOVA ΔE

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	4.167	7	.595	.318	.935
Within Groups	29.969	16	1.873		
Total	34.137	23			

 ΔE Duncan^a

perlakuan	N	Subset for alpha = 0.05
		1
perlakuan 1	3	1.9400
perlakuan 4	3	2.0400
perlakuan 3	3	2.1300
perlakuan 2	3	2.3967
perlakuan 5	3	2.4000
perlakuan 7	3	2.5400
perlakuan 6	3	3.0867
perlakuan 0	3	3.1133
Sig.		.365

d. H-7

ANOVA ΔE

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	8.875	7	1.268	1.764	.164
Within Groups	11.497	16	.719		
Total	20.372	23			

 ΔE Duncan^a

perlakuan	N	Subset for alpha = 0.05	
		1	2
perlakuan 5	3	1.3033	
perlakuan 7	3	1.4467	
perlakuan 1	3	1.4733	
perlakuan 6	3	1.5233	
perlakuan 2	3	1.6867	
perlakuan 0	3	1.7967	1.7967
perlakuan 4	3	2.0333	2.0333
perlakuan 3	3		3.3300
Sig.		.362	.051

e. H-9

ANOVA ΔE

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	11.884	7	1.698	1.827	.151
Within Groups	14.867	16	.929		
Total	26.750	23			

 ΔE Duncan^a

perlakuan	N	Subset for alpha = 0.05	
		1	2
perlakuan 0	3	.7633	
perlakuan 4	3	1.0733	1.0733
perlakuan 3	3	1.5067	1.5067
perlakuan 5	3	1.5467	1.5467
perlakuan 7	3	1.8267	1.8267
perlakuan 2	3	2.0433	2.0433
perlakuan 1	3		2.7800
perlakuan 6	3		2.8900
Sig.		.165	.057

f. H-11

ANOVA ΔE

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	19.309	7	2.758	2.929	.036
Within Groups	15.069	16	.942		
Total	34.378	23			

 ΔE Duncan^a

perlakuan	N	Subset for alpha = 0.05	
		1	2
perlakuan 2	3	1.1567	
perlakuan 0	3	1.5133	
perlakuan 6	3	1.6267	
perlakuan 4	3	1.6800	
perlakuan 1	3	1.7667	
perlakuan 5	3	2.2033	
perlakuan 7	3	2.3800	
perlakuan 3	3		4.2467
Sig.		.190	1.000

g. H-13

ANOVA ΔE

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	42.219	7	6.031	13.220	.000
Within Groups	7.300	16	.456		
Total	49.519	23			

 ΔE Duncan^a

perlakuan	N	Subset for alpha = 0.05				
		1	2	3	4	5
perlakuan 0	3	1.4767				
perlakuan 2	3	2.4333	2.4333			
perlakuan 6	3		2.9067			
perlakuan 4	3		2.9733			
perlakuan 1	3		3.6067	3.6067		
perlakuan 3	3			4.3667	4.3667	
perlakuan 5	3				5.0233	5.0233
perlakuan 7	3					5.7733
Sig.		.102	.067	.187	.251	.193

Means for groups in homogeneous subsets are displayed.

h. H-14

ANOVA

ΔE

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	7.095	7	1.014	.745	.639
Within Groups	21.776	16	1.361		
Total	28.870	23			

ΔE

Duncan^a

perlakuan	N	Subset for alpha = 0.05	
		1	
perlakuan 0	3	3.2900	
perlakuan 2	3	3.6867	
perlakuan 1	3	4.0933	
perlakuan 4	3	4.1000	
perlakuan 7	3	4.3967	
perlakuan 3	3	4.5433	
perlakuan 5	3	4.8067	
perlakuan 6	3	5.0633	
Sig.			.120

Lampiran 3. Hasil Analisis Parameter *Index Browning*

b. H-1

ANOVA

indexbrowning

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	5694512.227	7	813501.747	10.922	.000
Within Groups	1191676.229	16	74479.764		
Total	6886188.456	23			

indexbrowning

Duncan^a

perlakuan	N	Subset for alpha = 0.05	
		1	2
perlakuan 7	3	3840.4400	
perlakuan 6	3	3851.4233	
perlakuan 5	3	3863.0500	
perlakuan 3	3	3992.8967	
perlakuan 4	3	4065.2467	
Perlakuan 1	3	4133.0733	
Perlakuan 2	3	4234.4933	
Perlakuan 0	3		5413.4367
Sig.		.136	1.000

b. H-3

ANOVA

indexbrowning

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	11613755.13	7	1659107.876	20.353	.000
Within Groups	1304281.119	16	81517.570		
Total	12918036.25	23			

indexbrowningDuncan^a

perlakuan	N	Subset for alpha = 0.05		
		1	2	3
perlakuan 7	3	4177.0033		
perlakuan 5	3	4214.4700		
perlakuan 3	3	4361.7567		
Perlakuan 1	3	4461.8867		
perlakuan 4	3		5443.1500	
perlakuan 6	3		5510.3367	5510.3367
Perlakuan 2	3		5630.4900	5630.4900
Perlakuan 0	3			6014.8567
Sig.		.277	.458	.056

Means for groups in homogeneous subsets are displayed.

c. H-5

ANOVA

indexbrowning

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	8646611.197	7	1235230.171	23.110	.000
Within Groups	855215.103	16	53450.944		
Total	9501826.299	23			

indexbrowningDuncan^a

perlakuan	N	Subset for alpha = 0.05			
		1	2	3	4
perlakuan 7	3	4557.4967			
perlakuan 5	3	4617.5700			
perlakuan 3	3	4654.3933			
Perlakuan 1	3		5143.4133		
perlakuan 4	3		5541.9933	5541.9933	
perlakuan 6	3			5602.0667	
Perlakuan 2	3			5777.1333	
Perlakuan 0	3				6324.9333
Sig.		.634	.051	.255	1.000

d. H-7

ANOVA

indexbrowning

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	8137718.696	7	1162531.242	25.623	.000
Within Groups	725924.934	16	45370.308		
Total	8863643.630	23			

indexbrowningDuncan^a

perlakuan	N	Subset for alpha = 0.05			
		1	2	3	4
perlakuan 7	3	4892.1167			
perlakuan 5	3	4980.6200			
perlakuan 3	3	4996.1233			
Perlakuan 1	3		5551.0333		
perlakuan 6	3		5660.2033	5660.2033	
perlakuan 4	3		5761.6300	5761.6300	
Perlakuan 2	3			6027.7767	
Perlakuan 0	3				6719.6400
Sig.		.579	.268	.061	1.000

Means for groups in homogeneous subsets are displayed.

e. H-9

ANOVA

indexbrowning

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	5874412.104	7	839201.729	10.757	.000
Within Groups	1248254.857	16	78015.929		
Total	7122666.961	23			

indexbrowningDuncan^a

perlakuan	N	Subset for alpha = 0.05		
		1	2	3
perlakuan 7	3	5331.1900		
perlakuan 5	3	5389.1467		
perlakuan 3	3	5447.7367		
Perlakuan 1	3		5978.0333	
perlakuan 6	3		6244.1867	6244.1867
perlakuan 4	3		6296.5100	6296.5100
Perlakuan 2	3		6343.6700	6343.6700
Perlakuan 0	3			6756.4600
Sig.		.635	.159	.054

Means for groups in homogeneous subsets are displayed.

f. H-11

ANOVA

indexbrowning

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	3031571.597	7	433081.657	6.464	.001
Within Groups	1071960.812	16	66997.551		
Total	4103532.409	23			

indexbrowningDuncan^a

perlakuan	N	Subset for alpha = 0.05			
		1	2	3	4
perlakuan 7	3	5996.1200			
perlakuan 3	3	6077.5200	6077.5200		
perlakuan 5	3	6091.0867	6091.0867		
Perlakuan 1	3		6520.3500	6520.3500	
perlakuan 6	3			6657.6233	6657.6233
perlakuan 4	3			6687.3367	6687.3367
Perlakuan 2	3			6700.2600	6700.2600
Perlakuan 0	3				7062.0167
Sig.		.677	.063	.445	.096

g. H-13

ANOVA

indexbrowning

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	1509526.568	7	215646.653	1.999	.119
Within Groups	1725806.143	16	107862.884		
Total	3235332.711	23			

indexbrowningDuncan^a

perlakuan	N	Subset for alpha = 0.05	
		1	2
perlakuan 7	3	6590.4400	
perlakuan 5	3	6652.4567	6652.4567
perlakuan 3	3	6694.7667	6694.7667
Perlakuan 1	3	6930.8800	6930.8800
perlakuan 6	3	7135.6567	7135.6567
perlakuan 4	3	7147.9300	7147.9300
Perlakuan 2	3	7167.9600	7167.9600
Perlakuan 0	3		7264.2133
Sig.		.074	.060

h. H-14

ANOVA

indexbrowning

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	574841.299	7	82120.186	1.003	.464
Within Groups	1309909.412	16	81869.338		
Total	1884750.712	23			

indexbrowningDuncan^a

perlakuan	N	Subset for alpha = 0.05	
		1	
perlakuan 7	3	7130.4900	
perlakuan 5	3	7197.6733	
perlakuan 3	3	7220.2833	
perlakuan 6	3	7378.5533	
perlakuan 4	3	7394.7033	
Perlakuan 1	3	7403.7467	
Perlakuan 2	3	7456.7200	
Perlakuan 0	3	7643.9267	
Sig.		.071	

Lampiran 4. Hasil Analisis Parameter Susut Bobot

a. H-1

ANOVA

susutbobot

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	.153	7	.022	1.223	.346
Within Groups	.287	16	.018		
Total	.440	23			

susutbobotDuncan^a

perlakuan	N	Subset for alpha = 0.05	
		1	2
perlakuan 5	3	.067	
Perlakuan 1	3	.133	.133
perlakuan 3	3	.133	.133
perlakuan 7	3	.200	.200
Perlakuan 2	3	.233	.233
perlakuan 4	3	.233	.233
perlakuan 6	3	.267	.267
Perlakuan 0	3		.333
Sig.		.124	.124

b. H-3

ANOVA

susutbobot					
	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	1.120	7	.160	2.611	.053
Within Groups	.980	16	.061		
Total	2.100	23			

susutbobotDuncan^a

perlakuan	N	Subset for alpha = 0.05	
		1	2
Perlakuan 1	3	.233	
perlakuan 5	3	.233	
perlakuan 7	3	.233	
perlakuan 3	3	.267	.267
perlakuan 6	3	.600	.600
Perlakuan 2	3	.633	.633
Perlakuan 0	3	.700	.700
perlakuan 4	3		.733
Sig.		.057	.052

c. H-5

ANOVA

susutbobot					
	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	1.993	7	.285	5.510	.002
Within Groups	.827	16	.052		
Total	2.820	23			

susutbobotDuncan^a

perlakuan	N	Subset for alpha = 0.05	
		1	2
Perlakuan 1	3	.300	
perlakuan 3	3	.333	
perlakuan 5	3	.333	
perlakuan 7	3	.367	
Perlakuan 2	3		.900
perlakuan 4	3		.900
perlakuan 6	3		.900
Perlakuan 0	3		.933
Sig.		.746	.871

d. H-7

ANOVA

susutbobot

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	2.480	7	.354	6.590	.001
Within Groups	.860	16	.054		
Total	3.340	23			

susutbobotDuncan^a

perlakuan	N	Subset for alpha = 0.05	
		1	2
Perlakuan 1	3	.500	
perlakuan 3	3	.533	
perlakuan 5	3	.533	
perlakuan 7	3	.533	
Perlakuan 2	3		1.133
perlakuan 4	3		1.167
perlakuan 6	3		1.167
Perlakuan 0	3		1.200
Sig.		.874	.750

e. H-9

ANOVA

susutbobot

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	2.185	7	.312	28.813	.000
Within Groups	.173	16	.011		
Total	2.358	23			

susutbobotDuncan^a

perlakuan	N	Subset for alpha = 0.05	
		1	2
perlakuan 5	3	.700	
perlakuan 3	3	.733	
perlakuan 7	3	.733	
Perlakuan 1	3	.800	
perlakuan 4	3		1.300
Perlakuan 0	3		1.333
Perlakuan 2	3		1.367
perlakuan 6	3		1.367
Sig.		.295	.481

f. H-11

ANOVA

susutbobot

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	2.960	7	.423	4.451	.006
Within Groups	1.520	16	.095		
Total	4.480	23			

susutbobotDuncan^a

perlakuan	N	Subset for alpha = 0.05	
		1	2
perlakuan 3	3	.833	
perlakuan 7	3	.833	
Perlakuan 1	3	.867	
perlakuan 5	3	.867	
perlakuan 6	3		1.500
perlakuan 4	3		1.533
Perlakuan 2	3		1.567
Perlakuan 0	3		1.600
Sig.		.905	.720

g. H-13

ANOVA

susutbobot

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	8.900	7	1.271	5.325	.003
Within Groups	3.820	16	.239		
Total	12.720	23			

susutbobotDuncan^a

perlakuan	N	Subset for alpha = 0.05	
		1	2
perlakuan 7	3	1.367	
perlakuan 5	3	1.433	
Perlakuan 1	3	1.467	
perlakuan 3	3	1.500	
Perlakuan 0	3		2.500
Perlakuan 2	3		2.633
perlakuan 4	3		2.733
perlakuan 6	3		2.733
Sig.		.763	.598

h. H-14

ANOVA

susutbobot

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	13.493	7	1.928	3.276	.023
Within Groups	9.413	16	.588		
Total	22.906	23			

susutbobotDuncan^a

perlakuan	N	Subset for alpha = 0.05	
		1	2
perlakuan 3	3	1.733	
perlakuan 5	3	1.733	
perlakuan 7	3	1.767	
Perlakuan 1	3	1.833	
Perlakuan 2	3	3.133	3.133
Perlakuan 0	3	3.200	3.200
perlakuan 4	3		3.300
perlakuan 6	3		3.400
Sig.		.052	.701

Lampiran 5. Hasil Analisis Parameter Tingkat Kekerasan

a. H-1

ANOVA

kekerasan

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	11.786	7	1.684	.649	.710
Within Groups	41.480	16	2.593		
Total	53.266	23			

kekerasanDuncan^a

perlakuan	N	Subset for alpha = 0.05
		1
Perlakuan 6	3	7.1933
Perlakuan 0	3	7.3433
Perlakuan 2	3	7.5833
Perlakuan 4	3	7.8467
Perlakuan 3	3	7.9200
Perlakuan 1	3	8.3900
Perlakuan 7	3	8.7567
Perlakuan 5	3	9.3933
Sig.		.159

b. H-3

ANOVA

kekerasan					
	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	17.085	7	2.441	.511	.813
Within Groups	76.472	16	4.779		
Total	93.557	23			

kekerasanDuncan^a

perlakuan	N	Subset for alpha = 0.05
		1
Perlakuan 2	3	5.8667
Perlakuan 0	3	5.9433
Perlakuan 6	3	6.2300
Perlakuan 4	3	7.1233
Perlakuan 1	3	7.2267
Perlakuan 3	3	7.3100
Perlakuan 7	3	8.0367
Perlakuan 5	3	8.2100
Sig.		.262

c. H-5

ANOVA

kekerasan					
	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	13.894	7	1.985	.616	.735
Within Groups	51.513	16	3.220		
Total	65.407	23			

kekerasanDuncan^a

perlakuan	N	Subset for alpha = 0.05
		1
Perlakuan 6	3	5.4933
Perlakuan 0	3	5.5467
Perlakuan 2	3	5.7533
Perlakuan 4	3	6.3267
Perlakuan 1	3	6.7000
Perlakuan 3	3	6.9933
Perlakuan 5	3	7.2467
Perlakuan 7	3	7.6367
Sig.		.214

d. H-7

ANOVA

kekerasan

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	22.970	7	3.281	1.542	.223
Within Groups	34.055	16	2.128		
Total	57.024	23			

kekerasanDuncan^a

perlakuan	N	Subset for alpha = 0.05	
		1	
Perlakuan 0	3	4.3267	
Perlakuan 2	3	4.8533	
Perlakuan 6	3	4.9500	
Perlakuan 4	3	4.9633	
Perlakuan 3	3	6.3800	
Perlakuan 1	3	6.3933	
Perlakuan 7	3	6.8400	
Perlakuan 5	3	7.0067	
Sig.			.065

e. H-9

ANOVA

kekerasan

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	23.774	7	3.396	2.262	.084
Within Groups	24.023	16	1.501		
Total	47.797	23			

kekerasanDuncan^a

perlakuan	N	Subset for alpha = 0.05	
		1	2
Perlakuan 0	3	3.7933	
Perlakuan 2	3	4.3600	4.3600
Perlakuan 6	3	4.6567	4.6567
Perlakuan 4	3	4.7033	4.7033
Perlakuan 1	3	5.8367	5.8367
Perlakuan 3	3	6.0733	6.0733
Perlakuan 5	3		6.5367
Perlakuan 7	3		6.5600
Sig.		.058	.069

f. H-11

ANOVA

kekerasan					
	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	16.742	7	2.392	3.615	.016
Within Groups	10.585	16	.662		
Total	27.327	23			

kekerasanDuncan^a

perlakuan	N	Subset for alpha = 0.05			
		1	2	3	4
Perlakuan 0	3	3.4933			
Perlakuan 6	3	4.0233	4.0233		
Perlakuan 2	3	4.1300	4.1300		
Perlakuan 4	3	4.1900	4.1900	4.1900	
Perlakuan 1	3		5.1700	5.1700	5.1700
Perlakuan 3	3		5.2333	5.2333	5.2333
Perlakuan 5	3			5.7000	5.7000
Perlakuan 7	3				5.9600
Sig.		.349	.118	.051	.290

g. H-13

ANOVA

kekerasan					
	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	12.414	7	1.773	3.211	.025
Within Groups	8.836	16	.552		
Total	21.250	23			

kekerasanDuncan^a

perlakuan	N	Subset for alpha = 0.05		
		1	2	3
Perlakuan 0	3	2.9633		
perlakuan 6	3	3.1067	3.1067	
perlakuan 4	3	3.2533	3.2533	
perlakuan 2	3	3.2933	3.2933	
perlakuan 1	3	4.1700	4.1700	4.1700
perlakuan 3	3		4.5000	4.5000
perlakuan 7	3			4.7333
perlakuan 5	3			4.7600
Sig.		.090	.053	.384

h. H-14

ANOVA

kekerasan

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	13.144	7	1.878	4.999	.004
Within Groups	6.010	16	.376		
Total	19.154	23			

kekerasan

Duncan^a

perlakuan	N	Subset for alpha = 0.05	
		1	2
Perlakuan 4	3	2.7333	
Perlakuan 0	3	2.7600	
Perlakuan 6	3	2.8667	
Perlakuan 2	3	2.9367	
Perlakuan 1	3		4.0933
Perlakuan 3	3		4.2733
Perlakuan 7	3		4.3733
Perlakuan 5	3		4.4167
Sig.		.714	.561

Lampiran 6. Hasil Analisis Parameter Total Padatan Terlarut

a. H-1

ANOVA

PDT

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	2.458	7	.351	.215	.976
Within Groups	26.107	16	1.632		
Total	28.565	23			

PDT

Duncan^a

perlakuan	N	Subset for alpha = 0.05
		1
perlakuan 7	3	14.800
perlakuan 3	3	14.933
perlakuan 5	3	15.000
Perlakuan 1	3	15.067
perlakuan 4	3	15.267
Perlakuan 2	3	15.400
perlakuan 6	3	15.500
Perlakuan 0	3	15.833
Sig.		.392

b. H-3

ANOVA

PDT					
	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	7.933	7	1.133	.656	.705
Within Groups	27.660	16	1.729		
Total	35.593	23			

PDTDuncan^a

perlakuan	N	Subset for alpha = 0.05	
		1	
perlakuan 7	3	15.033	
perlakuan 3	3	15.200	
perlakuan 5	3	15.500	
Perlakuan 1	3	15.633	
Perlakuan 2	3	16.133	
perlakuan 4	3	16.333	
perlakuan 6	3	16.333	
Perlakuan 0	3	16.767	
Sig.		.173	

c. H-5

ANOVA

PDT					
	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	3.332	7	.476	1.408	.268
Within Groups	5.407	16	.338		
Total	8.738	23			

PDTDuncan^a

perlakuan	N	Subset for alpha = 0.05	
		1	2
perlakuan 7	3	16.000	
perlakuan 5	3	16.200	16.200
perlakuan 3	3	16.567	16.567
Perlakuan 1	3	16.633	16.633
Perlakuan 2	3	16.833	16.833
perlakuan 6	3	16.900	16.900
perlakuan 4	3	16.933	16.933
Perlakuan 0	3		17.200
Sig.		.100	.080

d. H-7

ANOVA

PDT

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	5.453	7	.779	.364	.910
Within Groups	34.287	16	2.143		
Total	39.740	23			

PDTDuncan^a

perlakuan	N	Subset for alpha = 0.05	
		1	
perlakuan 7	3	16.267	
perlakuan 5	3	16.733	
Perlakuan 1	3	16.933	
perlakuan 3	3	16.967	
perlakuan 4	3	17.467	
perlakuan 6	3	17.533	
Perlakuan 2	3	17.633	
Perlakuan 0	3	17.700	
Sig.			.304

e. H-9

ANOVA

PDT

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	8.580	7	1.226	2.954	.035
Within Groups	6.640	16	.415		
Total	15.220	23			

PDTDuncan^a

perlakuan	N	Subset for alpha = 0.05		
		1	2	3
perlakuan 7	3	16.800		
perlakuan 3	3	17.067	17.067	
Perlakuan 1	3	17.167	17.167	17.167
perlakuan 5	3	17.233	17.233	17.233
perlakuan 6	3		18.133	18.133
perlakuan 4	3		18.200	18.200
Perlakuan 2	3		18.233	18.233
Perlakuan 0	3			18.367
Sig.		.460	.064	.058

f. H-11

ANOVA

PDT					
	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	9.950	7	1.421	3.268	.024
Within Groups	6.960	16	.435		
Total	16.910	23			

PDTDuncan^a

perlakuan	N	Subset for alpha = 0.05		
		1	2	3
perlakuan 7	3	17.100		
Perlakuan 1	3	17.300	17.300	
perlakuan 5	3	17.367	17.367	17.367
perlakuan 3	3	17.400	17.400	17.400
Perlakuan 2	3		18.500	18.500
perlakuan 4	3		18.533	18.533
perlakuan 6	3			18.600
Perlakuan 0	3			18.633
Sig.		.616	.054	.051

g. H-13

ANOVA

PDT					
	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	6.413	7	.916	1.015	.457
Within Groups	14.447	16	.903		
Total	20.860	23			

PDTDuncan^a

perlakuan	N	Subset for alpha = 0.05
		1
perlakuan 7	3	17.833
Perlakuan 1	3	17.867
perlakuan 3	3	17.933
perlakuan 5	3	18.000
Perlakuan 2	3	18.867
perlakuan 6	3	18.867
Perlakuan 0	3	18.967
perlakuan 4	3	19.033
Sig.		.191

h. H-14

ANOVA

PDT

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	4.380	7	.626	.217	.976
Within Groups	46.140	16	2.884		
Total	50.520	23			

PDTDuncan^a

perlakuan	N	Subset for alpha = 0.05
		1
Perlakuan 1	3	18.367
perlakuan 5	3	18.367
perlakuan 7	3	18.500
perlakuan 3	3	18.633
Perlakuan 2	3	19.167
perlakuan 6	3	19.233
perlakuan 4	3	19.300
Perlakuan 0	3	19.467
Sig.		.491

Lampiran 7. Dokumentasi penelitian

Gambar 14. Kondisi buah langsung setelah sampai dari Palu.



Gambar 15. Buah langsung sebelum diberi perlakuan.



Gambar 16. Penyortiran buah langsung.



Gambar 17. Perendaman dengan asam askorbat.



Gambar 18. Buah langsung dengan pengemasan dan tanpa pengemasan.



Gambar 19. Penyimpanan suhu rendah.



Gambar 20. Pengukuran parameter warna.



Gambar 21. Pengukuran parameter total padatan terlarut.



Gambar 22. Pengukuran parameter kekerasan.



Gambar 23. Pengukuran parameter susut bobot.

DAFTAR RIWAYAT HIDUP

A. Data Pribadi

1. Nama : Yuliana Mahmuddin
2. Tempat, tgl. lahir : Pangkajenne, 07 Juli 2002
3. Alamat : JL. Paccarakang Blok A13 No. 4, Biring Kanaya, Makassar
4. Kewarganegaraan : Warga Negara Indonesia

B. Riwayat Pendidikan

1. Tamat SMA tahun 2020 di SMAN 2 SIDRAP
2. Tamat SMP tahun 2017 di SMPN 1 PANGSID
3. Tamat SD tahun 2014 di SDN 1 PANGSID

C. Pekerjaan dan Riwayat Pekerjaan/Organisasi

1. Jenis pekerjaan : Pengurus Himpunan Mahasiswa Teknologi Pertanian (HIMATEPA)
2. NIP atau identitas lain (NIK) : 7314074707020004
3. Pangkat/Jabatan : Sekretaris Bidang Pengembangan Komunitas Agroindustri (PKA)

D. Karya ilmiah yang telah dipublikasikan:

- Mahmuddin, Y., Muhammad, T. S., & Olly, S. H. 2024. Effect of Ascorbic Acid and Polyethylene Plastic Packaging on Browning and Shelf Life of Langsung Fruit (*Lansium Domesticum*). Jurnal UNHAS International Conference on Agricultural Technology (UICAT).

E. Makalah pada Seminar/Konferensi Ilmiah Nasional dan Internasional

- Mahmuddin, Y., Muhammad, T. S., & Olly, S. H. 2024. Effect of Ascorbic Acid and Polyethylene Plastic Packaging on Browning and Shelf Life of Langsung Fruit (*Lansium Domesticum*). Jurnal UNHAS International Conference on Agricultural Technology (UICAT).